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September 16, 2013

Via email only

Steven Renninger
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US EPA – Region 5, Superfund Division
Emergency Response Section #1
26 West Martin Luther Drive
Cincinnati, OH 45268

Re: Report No. 161803-0913-240, 30-Day Proficiency Sampling Report; Valley Asphalt Site (Moraine, Ohio/South Dayton Dump & Landfill) Unilateral Administrative Order for Removal Activities, Dated March 21, 2013

Dear Project Representatives:

Bowser Morner, Inc. is submitting the enclosed 30 Day Proficiency Sampling Report for the Valley Asphalt Site (South Dayton Dump & Landfill) in Moraine, Montgomery County, Ohio.

Sub-slab, indoor air and outdoor air samples were collected. Each sample was analyzed for TO-15 parameters. Results of the testing show VOC levels below available ODH screening levels and/or other applicable screening levels. Note that ODH and/or RSL screening levels for ethanol were not available; ethanol was found in all three sample media (sub-slab, indoor air and outdoor air).

These results indicate that the mitigation system installed in Building 4 is working efficiently.

If you have questions, please contact me at (937) 236-8805, ext. 340.

Respectfully submitted,

BOWSER-MORNER, INC.

Katherine H. Beach, R.E.M.

Attachments
KHB/ccs

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30-Day Proficiency Sampling Report; Valley Asphalt Site
(Moraine, Ohio/South Dayton Dump & Landfill) Unilateral
Administrative Order for Removal Activities, Dated March 21, 2013

For

Valley Asphalt
11641 Mosteller Road
Cincinnati, OH 45241

Report No. 161803-0913-240

September 16, 2013



1.0 INTRODUCTION

In response to the Unilateral Administrative Order (UAO) for Removal Actions issued to Valley Asphalt (Valley) by the United States Environmental Protection Agency (EPA) on March 21, 2013 and on behalf of Valley Asphalt, Bowser Morner, Inc. performed vapor intrusion (VI) testing required by the Work Plan submitted on May 30 and subsequently revised on July 7, 2013.

The primary focus of this report is the results of the 30-Day Proficiency Sampling. Results of other testing (effluent and sub-slab testing conducted immediately after installation of the sub-slab depressurization system [SSDS]) are also enclosed.

This report is organized into the following sections:

- **Section 1, Introduction** – Provides a brief description of the objective and scope of the work summarized in this report.
- **Section 2, Site Background** – Discusses the Site description and history.
- **Section 3, Sampling and Field Screening Activities** – Discusses Site sampling and field screening methods used during this work.
- **Section 4, Analytical Methods** – Discusses analytical methods used during this work.
- **Section 5, Analytical Results** – Discusses analytical results for samples collected during this work.
- **Section 6, Conclusions** – Summarizes the analytical results and presents conclusions based on these findings. Figures and tables are presented after the conclusions section.

2.0 SITE BACKGROUND

The Valley Asphalt site (Site) is located at 1901 Dryden Road in Moraine, Montgomery County, Ohio. The Site sits atop the northern part of the South Dayton Dump and Landfill site, which is undergoing a concurrent Removal Action.

During the 2012 VI investigations (CRA and EPA), TCE was observed in four different sub-slab samples collected in Building 4. Each sample exceeded the ODH TCE



sub-slab screening level. TCE was not observed in the indoor air sample collected in Building 4 above the ODH TCE indoor air screening level. Building 4 is a two-story building used as the control center for the Site's asphalt plant. The basement, approximately 5-feet below grade, consists of a poured foundation and poured walls. The sub-slab samples were collected from the basement floor. A pre-fabricated building sits atop of the basement and is the control center for the asphalt operations.

A sub-slab depressurization system (SSDS) was installed in the basement of Building 4 on July 10, 2013 to mitigate sub-slab vapors that appear to be migrating up from the underlying South Dayton Dump and Landfill.

3.0 SAMPLING AND FIELD SCREENING ACTIVITIES

All sampling was performed in accordance with the Work Plan submitted to EPA on May 30 and revised on July 7, 2013. All deviations from the Work Plan will be noted in the appropriate section below.

3.1 SUB-SLAB PROBE LEAK TEST

A leak test was performed at the sub-slab probe (SSP4-1) in Building 4 on July 10. The test verified no leakage from around SSP4-1.

3.2 BUILDING SURVEYS

In accordance with Section 3.3 of the Work Plan, building surveys were performed on Building 4 on July 10, July 17 and August 5, 2013 and documented on separate Form 1: Building Physical Survey Questionnaire. The surveys did not identify any significant, negative issues.

3.3 RADIUS OF INFLUENCE TESTING

In accordance with Sections 4.3 and 4.5 of the Work Plan, Radius of Influence testing was performed on July 10. Radius of Influence was confirmed at the sub-slab probe with a vacuum of -0.029 inches w.c.

3.4 FIELD SCREENING FOR METHANE

Field screening for methane inside the building was performed in accordance with sections 3.4.1 and 3.5 of the Work Plan. The concentration of methane at SSP4-1 was measured on July 11, 2013. Methane was measured to be 00.1 percent.

Two methane screens were performed on July 17, 2013; pre-purge and post-purge (purge of SSP4-1). The methane concentration was 00.1 percent pre-purge and 00.2 percent post-purge.

Methane was screened again prior to the collection of the samples on August 6, 2013. Methane was detected at 00.1 percent in the indoor air space of Building 4.

3.5 SAMPLING IMMEDIATELY AFTER INSTALLATION OF SSDS

3.5.1 SSDS EFFLUENT SAMPLING

In accordance with Section 3.2.1.3 of the Work Plan, an air sample was collected from the effluent of the SSDS on July 17, 2012. Because no regulator was used to control the draw of the sample, no residual vacuum remained in the canister. This sample was considered invalid and was not tested. A second canister sample was collected from the effluent of the SSDS on July 23, 2013. A regulator was used to collect this sample; the vacuum at the end of the collection of the sample was -2.5 inches w.c.

The analytical data resulting from this sample was used to determine the SSDS's PTE and is discussed in Section 3.5.2, below. The primary COC, TCE, was detected in the effluent, 0.88 ppbv.

3.5.2 DE MINIMUS SAMPLING

In accordance with Section 3.2.1.5 of the Work Plan, the air sample collected from the effluent of the SSDS on July 23, 2013 also served as the De Minimus sample. Calculations show the hourly emission rate from the SSDS to be $6.21e^{-4}$ pounds per hour

(lb/hr) and the PTE to be 5.44 pounds per year (lb/year). Therefore, this source is considered *de minimus* by OAC 3745-15-05 and no air permitting is required.

3.5.3 SUB-SLAB PROFICIENCY SAMPLING

In accordance with Section 3.2.1.4 of the Work Plan, an 8-hour sample was collected from SSP4-1 on July 17, 2013 to fulfill the requirement to sample immediately after installation of the SSDS. A field duplicate sample was collected at the same time. Both samples were analyzed for TO-15 parameters. The primary sample was also analyzed as a Quality Assurance/Quality Control (QWA/QC) sample associated with the methane field screening.

The primary COC, Trichloroethylene, was detected at a concentration of 0.11 ppbv (0.58 J ug/m³) in both samples. Several other volatiles in the TO-15 list were detected in both samples, the highest of which was acetone at 15 and 20 ppbv (35 and 48 ug/m³).

Methane, ethane and ethane were not detected at the 0.20 % method detection limit.

3.6 VELOCITY METER READING

In accordance with Section 3.2.1.5 of the Work Plan, a hand-held velocity meter was used to measure the flow rate of the effluent of the SSDS installed in Building 4. The velocity was measured at 361 feet per minute (ft/min); the flow rate was 280 cubic feet per minute (ft³/min).

3.7 30-DAY PROFICIENCY TESTING

3.7.1 SUB-SLAB TESTING

The 30-day Proficiency Sample was collected on August 5 and 6th in accordance with Sections 3.1, 3.2, 3.2.1., 3.2.1.1, 3.4, 3.4.1. and 3.5 of the Work Plan. This “8-hour” sample was collected over a period of 10 hours and 51 minutes to meet the SUMMA can

sample collection requirements listed in Section 3.1 and Table 3 of the Work Plan. This sample was analyzed for TO-15 parameters.

The primary COC, Trichloroethylene, was not detected in this sample. Several other volatiles in the TO-15 list were detected in this sample, the highest of which was ethanol at 130 (E) ppbv (250 (E) ug/m³).

3.7.2 INDOOR AIR TESTING

30-day Proficiency Samples (a primary sample plus a Field Duplicate) were collected on August 5 and 6th in accordance with Sections 3.1, 3.2.1.1, 3.3, and 3.5 of the Work Plan. The primary sample met all of the sampling parameters set forth in Section 3.1 and Table 3 of the Work Plan such that the sample was collected in one day – August 5, 2013. The field duplicate “8-hour” sample was collected on August 5 and August 6 over a period of 10 hours and 37 minutes to meet the SUMMA can sample collection requirements listed in Section 3.1 and Table 3 of the Work Plan. Both samples were analyzed for TO-15 parameters.

The primary COC, Trichloroethylene, was not detected in either sample. Several other volatiles in the TO-15 list were detected in these samples, the highest of which was ethanol at 51 and 67 ppbv (120 (E) and 110 (E) ug/m³).

3.7.2.1 DEFICIENCIES

The door leading from the outside of the building, into the space being tested, was inadvertently left open for approximately 1.5 hours during the testing on August 5, 2013.

3.7.3 OUTDOOR AIR TESTING

30-day Proficiency Samples (a primary sample plus a Field Duplicate) were collected on August 5 in accordance with Sections 3.1, 3.2.1.2 and 3.5 of the Work Plan. Both samples were analyzed for TO-15 parameters.

The primary COC, Trichloroethylene, was not detected in either sample. Several other volatiles in the TO-15 list were detected in these samples, one of the highest of which was ethanol at 3.2 and 7.9 ppbv (6.0 and 15 ug/m³).

4.0 ANALYTICAL METHODS

Bowser Morner, Inc. collected a total of one effluent, two indoor air, two outdoor air and three sub-slab samples from Building 4 for analysis by contract labs. Test America (Knoxville, Tennessee) was used to analyze two sub-slab samples and one SSDS effluent sample; all other samples were analyzed by ESC Lab Sciences (Mt. Juliet, Tennessee).

The SSDS effluent sample collected on July 17, 2013 was analyzed by Test America for volatile organic compounds using EPA TO-15.

The indoor air samples (primary sample plus field duplicate) collected on August 5 and 6, 2013 were analyzed by ESC for volatile organic compounds using EPA TO-15. The primary sample was also analyzed by Test America for methane, ethane and ethane using EPA Method D1946. The primary sample was also analyzed by ESC for methane, ethane and ethane using SW-846 Method 8015M.

The outdoor air samples (primary sample plus field duplicate) collected on August 5, 2013 were analyzed by ESC for volatile organic compounds using EPA TO-15.

The sub-slab samples (primary sample plus field duplicate) collected on July 17, 2013 were analyzed by Test America for volatile organic compounds using EPA TO-15. The primary sample was also analyzed by Test America for methane, ethane and ethane using EPA Method D1946.

The sub-slab sample collected on August 6, 2013 was analyzed by ESC for volatile organic compounds using EPA TO-15.

5.0 ANALYTICAL RESULTS

Tables 5.1 through 5.6 summarize the analytical results, as follows:

Tables 5.1	SSDS Effluent Sampling (Immediately After Installation)
Table 5.2	Sub-Slab Sampling (Immediately After Installation)
Table 5.3	Methane Sampling: Sub-Slab
Table 5.4	30-Day Proficiency Sampling: Sub-Slab
Table 5.5	30-Day Proficiency Sampling: Indoor Air
Table 5.6	30-Day Proficiency Sampling: Outdoor Air

Analytical results for each sample are provided in each table. Tables 5.1 and 5.2 do not compare the analytical results to the ODH and/or RSL screening levels since these samples were taken immediately after installation of the SSDS. The analytical results presented in Tables 5.3 through 5.6 are compared to the ODH and/or RSL screening levels; exceedances of the screening levels are identified.

ODH and/or RSL screening levels were not identified for three compounds associated with the 30-day proficiency samples (ethanol, methyl butyl ketone and 1,3,5-trimethylbenzene). Ethanol was detected in all three sample types: sub-slab (130 (E) ppbv), indoor air (61 ppbv) and outdoor air (6 ppbv).

The validated laboratory analytical results for the samples will be submitted with the Final Report summarizing the actions taken to comply with the UAO.

No 30-day Proficiency samples exceeded the ODH and/or RSL screening levels.

6.0 CONCLUSIONS

30-day proficiency samples were collected from Building 4 in August, 2013. Sub-slab, indoor air and outdoor air samples were collected. Each sample was analyzed with TO-15 methods. No 30-day Proficiency samples exceeded available ODH and/or RSL screening levels. Note that ODH and/or RSL screening levels for ethanol were not

available; ethanol was found in all three sample media (sub-slab, indoor air and outdoor air).

The 30-day proficiency sampling shows that the mitigation system (SSDS) is working to remove volatiles from beneath the slab of Building 4 on the Valley site.

TABLE 5.1
EFFLUENT SAMPLING RESULTS (IMMEDIATELY AFTER INSTALLATION OF SSDS)
Valley Asphalt

Sample Event: Immediately after Installation of SSDS
Matrix: AIR
Client Sample IDs: 071713-KB-41D
Method: 8260B

Results

Client Sample ID			SS-161803-071713-KB-41			SS-161803-071713-KB-41			
Lab Sample ID			H3G260417-001			H3G260417-001			
Source			Sub-Slab			Sub-Slab			
Collect Date			7/17/2013			7/17/2013			
Client Project ID			161803			161803			
Collect Time			16:05:00			16:05:00			
Method	Parameter	Units	Value	RL	MDL	Units	Value	RL	MDL
8260B	Acetone	ppb	67	50.0	14	µg/m³	160	120	33.0
8260B	Benzene	ppb	1.2	2.0	0.56	µg/m³	3.9 J	6.4	1.8
8260B	Benzyl Chloride	ppb	ND	4.0	0.78	µg/m³	ND	21	4.0
8260B	Bromodichloromethane	ppb	ND	2.0	0.44	µg/m³	ND	13	2.9
8260B	Bromoform	ppb	ND	2.0	0.48	µg/m³	ND	21	5.0
8260B	Bromomethane	ppb	ND	2.0	0.32	µg/m³	ND	7.8	1.2
8260B	1,3-Butadiene	ppb	ND	4.0	0.64	µg/m³	ND	8.8	1.4
8260B	n-Butane	ppb	12	4.0	0.64	µg/m³	30	9.5	1.5
8260B	2-Butanon (MEK)	ppb	ND	10.0	2	µg/m³	ND	29	5.9
8260B	tert-Butyl alcohol	ppb	ND	20	0.38	µg/m³	ND	61	1.2
8260B	n-Butylbenzene	ppb	ND	4.0	0.46	µg/m³	ND	22	2.5
8260B	sec-Butylbenzene	ppb	ND	4.0	0.64	µg/m³	ND	22	3.5
8260B	tert-Butylbenzene	ppb	ND	5.0	0.66	µg/m³	ND	27	3.6
8260B	Carbon disulfide	ppb	3.8	5.0	0.31	µg/m³	12 J	16	1.0
8260B	Carbon tetrachloride	ppb	ND	2.0	0.38	µg/m³	ND	13	2.4
8260B	Chlorobenzene	ppb	ND	2.0	0.49	µg/m³	ND	9.2	2.3
8260B	Chloroethane	ppb	ND	2.0	0.35	µg/m³	ND	5.3	0.9
8260B	Chloroform	ppb	1.6	2.0	0.38	µg/m³	8.0 J	9.8	1.9
8260B	Chloromethane	ppb	ND	5.0	1.6	µg/m³	ND	10	3.3
8260B	Dibromochloromethane	ppb	ND	2.0	0.42	µg/m³	ND	17	3.6
8260B	Chlorodifluoromethane	ppb	0.62	2.0	0.37	µg/m³	2.2 J	7.1	1.3
8260B	3-Chloropropene	ppb	ND	2.0	0.48	µg/m³	ND	6.3	1.5

Client Sample ID			SS-161803-071713-KB-41			SS-161803-071713-KB-41		
Source			Sub-Slab			Sub-Slab		
Collect Date			7/17/2013			7/17/2013		
Method	Parameter	Units	Value	RL	MDL	Units	Value	RL
8260B	2-Chlorotoluene	ppb	ND	4.0	0.63	µg/m3	ND	21
8260B	Cumeme	ppb	ND	4.0	0.6	µg/m3	ND	20
8260B	Cyclohexane	ppb	0.79	5.0	0.4	µg/m3	2.7 J	17
8260B	n-Decane	ppb	3.9	10	0.56	µg/m3	23J	58
8260B	1,2-Dibromoethane	ppb	ND	2.0	0.44	µg/m3	ND	15
8260B	1,2-Dichlorobenzene	ppb	ND	2.0	0.7	µg/m3	ND	12
8260B	1,3-Dichlorobenzene	ppb	ND	2.0	0.65	µg/m3	ND	12
8260B	1,4-Dichlorobenzene	ppb	ND	2.0	0.64	µg/m3	ND	12
8260B	1,2-Dichloroethane	ppb	ND	2.0	0.47	µg/m3	ND	8.1
8260B	1,1-Dichloroethane	ppb	ND	2.0	0.26	µg/m3	ND	8.1
8260B	1,1-Dichloroethene	ppb	ND	2.0	0.34	µg/m3	ND	7.9
8260B	cis-1,2-Dichloroethene	ppb	ND	2.0	0.6	µg/m3	ND	7.9
8260B	trans-1,2-Dichloroethene	ppb	ND	2.0	0.5	µg/m3	ND	7.9
8260B	1,2-Dichloropropane	ppb	ND	2.0	0.52	µg/m3	ND	9.2
8260B	cis-1,3-Dichloropropene	ppb	ND	2.0	0.74	µg/m3	ND	9.1
8260B	trans-1,3-Dichloropropene	ppb	ND	2.0	0.48	µg/m3	ND	9.1
8260B	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppb	ND	2.0	0.32	µg/m3	ND	14
8260B	1,4-Dioxane	ppb	ND	5.0	0.8	µg/m3	ND	18
8260B	n-Dodecane	ppb	0.85	10	0.78	µg/m3	6.0 J	70
8260B	Ethylbenzene	ppb	4.1	2.0	0.68	µg/m3	18	8.7
8260B	4-Ethyltoluene	ppb	ND	4.0	0.66	µg/m3	ND	20
8260B	Dichlorodifluoromethane	ppb	2.8	2.0	0.68	µg/m3	14	9.9
8260B	Hexachloro-1,3-butadiene	ppb	ND	10	0.78	µg/m3	ND	110
8260B	n-Hexane	ppb	3.8	5.0	0.32	µg/m3	13 J	18
8260B	2-Hexanone	ppb	0.63	5.0	0.58	µg/m3	2.6 J	20
8260B	Isopropyl alcohol	ppb	3.9	20.0	0.44	µg/m3	9.6 J	49
8260B	4-Isopropyltoluene	ppb	ND	2.0	0.57	µg/m3	ND	11
8260B	Methylene Chloride	ppb	3.8	5.0	0.45	µg/m3	13 J B	17
8260B	2-Butanone (MEK)	ppb	ND	10	2	µg/m3	ND	29
8260B	(MIBK)	ppb	ND	5.0	0.45	µg/m3	ND	20
8260B	Methyl methacrylate	ppb	ND	5.0	0.79	µg/m3	ND	20
8260B	MTBE	ppb	ND	10	1.7	µg/m3	ND	36
8260B	Naphthalene	ppb	ND	5.0	0.9	µg/m3	ND	26
8260B	Nonane	ppb	2.4	5.0	0.43	µg/m3	13 j	26
8260B	N-Octane	ppb	1.1	4.0	0.36	µg/m3	5.1 J	19

Client Sample ID			SS-161803-071713-KB-41						SS-161803-071713-KB-41		
Source			Sub-Slab						Sub-Slab		
Collect Date			7/17/2013						7/17/2013		
Method	Parameter	Units	Value	RL	MDL	Units	Value	RL	MDL		
8260B	Pentane	ppb	19	10	0.6	µg/m3	56	30	1.8		
8260B	n-propylbenzene	ppb	ND	4.0	0.56	µg/m3	ND	20	2.8		
8260B	Styrene	ppb	2.9	2.0	0.58	µg/m3	12	8.5	2.5		
8260B	1,1,2,2-Tetrachloroethane	ppb	ND	2.0	0.61	µg/m3	ND	14	4.2		
8260B	Tetrachloroethylene	ppb	ND	2.0	0.4	µg/m3	ND	14	2.7		
8260B	Tetrahydrofuran	ppb	0.71	10	0.63	µg/m3	2.1 J	29	1.9		
8260B	Toluene	ppb	30	2.0	0.54	µg/m3	110	7.5	2		
8260B	1,2,4-Trichlorobenzene	ppb	ND	10	0.98	µg/m3	ND	74	7.3		
8260B	1,1,1-Trichloroethane	ppb	ND	2.0	0.3	µg/m3	ND	11	1.6		
8260B	1,1,2-Trichloroethane	ppb	ND	2.0	0.54	µg/m3	ND	11	2.9		
8260B	Trichloroethylene	ppb	0.88	2.0	0.36	µg/m3	4.7 J	11	1.9		
8260B	Trichlorofluoromethane		0.9	2.0	0.24	µg/m3	5.1 J	11	1.3		
	1,1,3-Trichloro-1,2,2-trifluoroethane	ppb	ND	2.0	0.31	µg/m3	ND	15	2.4		
8260B	Vinyl bromide	ppb	ND	2.0	0.35	µg/m3	ND	8.7	1.5		
8260B	Vinyl chloride	ppb	ND	2.0	0.71	µg/m3	ND	5.1	1.8		
8260B	m&p-Xylene	ppb	4.7	2.0	1.2	µg/m3	21	8.7	5.2		
8260B	o-Xylene	ppb	1.6	2.0	0.61	µg/m3	6.9 J	8.7	2.6		
8260B	1,2,4-Trimethylbenzene	ppb	1.2	2.0	0.63	µg/m3	5.7 J	9.8	3.1		
8260B	1,3,5-Trimethylbenzene	ppb	ND	2.0	0.65	µg/m3	ND	9.8	3.2		
8260B	2,2,4-Trimethylpentane		1.5	5.0	0.39	µg/m3	6.8 J	23	1.8		
8260B	u-Undecane		3.1	10	0.62	µg/m3	20 J	64	4.0		
8260B	1,4-Bromofluorobenzene	% Rec.	112				112				

Notes

Bolded values indicate target analyte at a detectable level.

Qualifiers:

E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater

B - Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL

TABLE 5.2
SUB-SLAB SAMPLING RESULTS (IMMEDIATELY AFTER INSTALLATION OF SSDS)
Valley Asphalt

Sample Event: Immediately after Installation of SSDS
Matrix: AIR
Client Sample IDs: SS-161803-071713-KB-41; SS-161803-071713-KB-41D
Method: 8260B

Results

Client Sample ID			SS-161803-071713-KB-41			SS-161803-071713-KB-41D			SS-161803-071713-KB-41			SS-161803-071713-KB-41D			
Lab Sample ID			H3G230415-001			H3G230415-002			Sub-Slab			Sub-Slab (Field Duplicate)			
Source			Sub-Slab			Sub-Slab (Field Duplicate)			Sub-Slab			Sub-Slab (Field Duplicate)			
Collect Date			7/17/2013			7/17/2013			7/17/2013			7/17/2013			
Client Project ID			161803			161803			161803			161803			
Collect Time			17:19:00			17:19:00			17:19:00			17:19:00			
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	Units	Value	RL	MDL	Value	RL	MDL
8260B	Acetaldehyde	ppb	ND	10	10	16	10	10	µg/m³	ND	18	18	29	18	18
8260B	Acetone	ppb	15	10	10	20	10	10	µg/m³	35	12	3.3	48	12	3.3
8260B	Benzene	ppb	0.21	0.2	0.056	0.21	0.2	0.056	µg/m³	0.68	0.64	0.18	0.67	0.64	0.18
8260B	Benzyl Chloride	ppb	ND	0.4	0.078	ND	0.4	0.078	µg/m³	ND	2.1	0.4	ND	2.1	0.4
8260B	Bromodichloromethane	ppb	ND	0.2	0.044	ND	0.2	0.044	µg/m³	ND	1.3	0.29	ND	1.3	0.29
8260B	Bromoform	ppb	ND	0.2	0.048	ND	0.2	0.048	µg/m³	ND	2.1	0.5	ND	2.1	0.5
8260B	Bromomethane	ppb	ND	0.2	0.032	0.038	0.2	0.032	µg/m³	ND	0.78	0.12	.15 J	0.78	0.12
8260B	1,3-Butadiene	ppb	ND	0.4	0.064	ND	0.4	64	µg/m³	ND	0.88	0.14	ND	0.88	0.14
8260B	n-Butane	ppb	0.43	0.4	0.064	0.48	0.4	0.064	µg/m³	10	0.95	0.15	1.1	0.95	0.15
8260B	2-Butanone (MEK)	ppb	2.8	1	0.2	3.3	1.0	0.2	µg/m³	8.4	2.9	0.59	9.6	2.9	0.59
8260B	tert-Butyl alcohol	ppb	0.87	2	0.038	1.0	2.0	0.038	µg/m³	2.7J	6.1	0.12	3.1 J	6.1	0.12
8260B	n-Butylbenzene	ppb	0.14	0.4	0.046	0.084	0.4	0.046	µg/m³	0.77 J	2.2	0.25	.046 J	2.2	0.25
8260B	sec-Butylbenzene	ppb	0.095	0.4	0.064	ND	0.4	0.064	µg/m³	0.52 J	2.2	0.35	ND	2.2	0.35
8260B	tert-Butylbenzene	ppb	0.014	0.5	0.066	0.069	0.5	0.066	µg/m³	0.76 J	2.7	0.36	0.38 J	2.7	0.36
8260B	Carbon disulfide	ppb	0.12	0.5	0.031	0.49	0.5	0.031	µg/m³	.36J	1.6	0.097	1.5J	1.6	0.097
8260B	Carbon tetrachloride	ppb	0.07	0.2	0.038	0.073	0.2	0.038	µg/m³	.44J	1.3	0.24	.46J	1.3	0.24
8260B	Chlorobenzene	ppb	0.12	0.2	0.049	0.11	0.2	0.049	µg/m³	.55J	0.92	0.23	.50J	0.92	0.23
8260B	Chloroethane	ppb	ND	0.2	0.035	ND	0.2	0.035	µg/m³	ND	0.53	0.092	ND	0.53	0.092
8260B	Chloroform	ppb	0.042	0.2	0.038	0.038	0.2	0.038	µg/m³	.21J	0.98	0.19	.19J	0.98	0.19
8260B	Chloromethane	ppb	0.22	0.5	0.16	0.27	0.5	0.16	µg/m³	.45J	1	0.33	.55J	1.0	0.33
8260B	3-Chloropropene	ppb	ND	0.2	0.048	ND	0.2	0.048	µg/m³	ND	0.63	0.15	ND	0.63	0.15
8260B	2-Chlorotoluene	ppb	ND	0.4	0.063	ND	0.4	0.063	µg/m³	ND	2.1	0.33	ND	2.1	0.33
8260B	Cumene	ppb	0.093	0.4	0.06	ND	0.4	0.06	µg/m³	0.46 J	2	0.29	ND	2.0	0.29
8260B	Cyclohexane	ppb	0.11	0.5	0.04	0.091	0.5	0.04	µg/m³	.39 J	1.7	0.14	.31 J	1.7	0.14
8260B	n-Decane	ppb	0.57	1.0	0.056	0.47	1.0	0.056	µg/m³	3.3 J	5.8	0.33	2.7 J	5.8	0.33
8260B	Dibromochloromethane	ppb	ND	0.2	0.042	ND	0.2	0.042	µg/m³	ND	1.7	0.36	ND	1.7	0.36
8260B	Chlorodifluoromethane	ppb	0.19	0.2	0.037	0.19	0.2	0.037	µg/m³	0.67 J	0.71	0.13	0.67 J	0.71	0.13
8260B	1,2-Dibromoethane	ppb	ND	0.2	0.044	ND	0.2	0.044	µg/m³	ND	1.5	0.34	ND	1.5	0.34
8260B	1,2-Dichlorobenzene	ppb	ND	0.2	0.07	ND	0.2	0.07	µg/m³	ND	1.2	0.42	ND	1.2	0.42
8260B	1,3-Dichlorobenzene	ppb	0.067	0.2	0.065	ND	0.2	0.065	µg/m³	.40J	1.2	0.39	ND	1.2	0.39
8260B	1,4-Dichlorobenzene	ppb	0.077	0.2	0.064	ND	0.2	0.064	µg/m³	.47J	1.2	0.38	ND	1.2	0.38
8260B	1,2-Dichloroethane	ppb	ND	0.2	0.047	ND	0.2	0.047	µg/m³	ND	0.81	0.19	ND	0.81	0.19
8260B	1,1-Dichloroethane	ppb	ND	0.2	0.026	ND	0.2	0.026	µg/m³	ND	0.81	0.11	ND	0.81	0.11
8260B	1,1-Dichloroethene	ppb	ND	0.2	0.034	ND	0.2	0.034	µg/m³	ND	0.79	0.13	ND	0.79	0.13

Client Sample ID			SS-161803-071713-KB-41			SS-161803-071713-KB-41D				SS-161803-071713-KB-41			SS-161803-071713-KB-41D			
Source			Sub-Slab			Sub-Slab (Field Duplicate)				Sub-Slab			Sub-Slab (Field Duplicate)			
Collect Date			7/17/2013			7/17/2013				7/17/2013			7/17/2013			
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	Units	Value	RL	MDL	Value	RL	MDL	
8260B	cis-1,2-Dichloroethene	ppb	ND	0.2	0.06	ND	0.2	0.06	µg/m3	ND	0.79	0.24	ND	0.79	0.24	
8260B	trans-1,2-Dichloroethene	ppb	ND	0.2	0.05	ND	0.2	0.05	µg/m3	ND	0.79	0.2	ND	0.79	0.2	
8260B	1,2-Dichloropropane	ppb	ND	0.2	0.052	ND	0.2	0.052	µg/m3	ND	0.92	0.24	ND	0.92	0.24	
8260B	cis-1,3-Dichloropropene	ppb	ND	0.2	0.074	ND	0.2	0.074	µg/m3	ND	0.91	0.34	ND	0.91	0.34	
8260B	trans-1,3-Dichloropropene	ppb	ND	0.2	0.048	ND	0.2	0.048	µg/m3	ND	0.91	0.22	ND	0.91	0.22	
	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppb	ND	0.2	0.032	ND	0.2	0.032	µg/m3	ND	1.4	0.22	ND	1.4	0.22	
8260B	1,4-Dioxane	ppb	ND	0.5	0.08	ND	0.5	0.08	µg/m3	ND	1.8	0.29	ND	1.8	0.29	
8260B	n-Dodecane	ppb	0.9	1.0	0.078	2.6	1.0	0.078	µg/m3	6.3 J	7.0	0.54	18	7.0	0.54	
8260B	Ethylbenzene	ppb	0.39	0.2	0.068	0.25	0.2	0.068	µg/m3	1.7	0.87	0.3	1.1	0.87	0.3	
8260B	4-Ethyltoluene	ppb	0.28	0.4	0.066	0.16	0.4	0.066	µg/m3	1.4 J	2.0	0.32	0.78 J	2.0	0.32	
8260B	n-Heptane	ppb	0.31	0.5	0.047	0.25	0.5	0.047	µg/m3	1.3 J	2.0	0.19	1.0 J	2.0	0.19	
8260B	Trichlorofluoromethane	ppb	0.21	0.2	0.024	0.25	0.2	0.024	µg/m3	1.2	1.1	0.13	1.4	1.1	0.13	
8260B	Dichlorodifluoromethane	ppb	0.24	0.2	0.068	0.28	0.2	0.068	µg/m3	1.2	0.99	0.34	1.4	0.99	0.34	
8260B	Hexachloro-1,3-butadiene	ppb	ND	1.0	0.078	ND	1.0	0.078	µg/m3	ND	11	0.83	ND	11	0.83	
8260B	n-Hexane	ppb	0.27	0.5	0.032	0.26	0.5	0.032	µg/m3	.96J	1.8	0.11	.91J	1.8	0.11	
8260B	2-Hexanon	ppb	0.16	0.5	0.058	0.11	0.5	0.058	µg/m3	.67 J	2.0	0.24	.46 J	2.0	0.24	
8260B	Isopropyl alcohol	ppb	18	2.0	0.044	16	2.0	0.044	µg/m3	45	4.9	0.11	40	4.9	0.11	
8260B	4-Isopropyltoluene	ppb	0.14	0.2	0.057	ND	0.2	0.057	µg/m3	.079 J	1.1	0.31	ND	1.1	0.31	
8260B	Methylene Chloride	ppb	0.28	0.5	0.045	0.33	0.5	0.045	µg/m3	.97J B	1.7	0.16	1.1J B	1.7	0.16	
8260B	(MIBK)	ppb	1	0.5	0.045	0.45	0.5	0.045	µg/m3	4.1	2.0	0.18	1.8J	2.0	0.18	
8260B	Methyl methacrylate	ppb	ND	0.5	0.079	ND	0.5	0.079	µg/m3	ND	2.0	0.32	ND	2.0	0.32	
8260B	MTBE	ppb	ND	1.0	0.17	ND	1.0	0.17	µg/m3	ND	3.6	0.61	ND	3.6	0.61	
8260B	Naphthalene	ppb	ND	0.5	0.09	0.32	0.5	0.09	µg/m3	ND	2.6	0.47	1.7 J	2.6	0.47	
8260B	Nonane	ppb	0.38	0.5	0.043	0.22	0.5	0.043	µg/m3	2.0 J	2.6	0.23	1.2 J	2.6	0.23	
8260B	n-Octane	ppb	0.27	0.4	0.036	0.17	0.4	0.036	µg/m3	1.2 J	1.9	0.17	0.78 J	1.9	0.17	
8260B	Pentane	ppb	0.37	1.0	0.06	0.37	1.0	0.06	µg/m3	1.1 J	3.0	0.18	1.1 J	3.0	0.18	
8260B	n-Propylbenzene	ppb	0.22	0.4	0.056	0.1	0.4	0.056	µg/m3	1.1 J	2.0	0.28	.50 J	2.0	0.28	
8260B	Styrene	ppb	0.26	0.2	0.058	0.26	0.2	0.058	µg/m3	1.1	0.85	2.5	1.1	0.85	2.5	
8260B	1,1,2,2-Tetrachloroethane	ppb	ND	0.2	0.061	ND	0.2	0.061	µg/m3	ND	1.4	0.42	ND	1.4	0.42	
8260B	Tetrachloroethylene	ppb	0.26	0.2	0.04	0.088	0.2	0.04	µg/m3	1.8	1.4	0.27	.60J	1.4	0.27	
8260B	Tetrahydrofuran	ppb	4.2	1.0	0.063	3.5	1.0	0.063	µg/m3	12	2.9	0.19	10	2.9	0.19	
8260B	Toluene	ppb	1.3	0.2	0.054	1.2	0.2	0.054	µg/m3	5.1	0.75	0.2	4.3	0.75	0.2	
8260B	1,2,4-Trichlorobenzene	ppb	ND	1.0	0.098	ND	1.0	0.098	µg/m3	4.1	0.98	0.31	ND	0.98	0.31	
8260B	1,1,1-Trichloroethane	ppb	ND	0.2	0.03	ND	0.2	0.03	µg/m3	ND	1.1	0.16	ND	1.1	0.16	
8260B	1,1,2-Trichloroethane	ppb	ND	0.2	0.054	ND	0.2	0.054	µg/m3	ND	1.1	0.29	ND	1.1	0.29	
8260B	Trichloroethylene	ppb	0.11	0.2	0.036	0.11	0.2	0.036	µg/m3	.58J	1.1	0.19	.59J	1.1	0.19	
	1,1,2-Trichloro-1,2,2-trifluoroethane	ppb	0.073	0.2	0.031	0.078	0.2	0.031	µg/m3	0.56 J	1.5	0.24	.60 J	1.5	0.24	
8260B	Vinyl bromide	ppb	ND	0.2	0.035	ND	0.2	0.035	µg/m3	ND	0.87	0.15	ND	0.87	0.15	
8260B	Vinyl chloride	ppb	0.08	0.2	0.071	0.075	0.2	0.071	µg/m3	.20J	0.51	0.18	.19J	0.51	0.18	
8260B	m&p-Xylene	ppb	1.5	0.2	0.12	0.83	0.2	0.12	µg/m3	6.6	0.87	0.52	3.6	0.87	0.52	
8260B	o-Xylene	ppb	0.65	0.2	0.061	0.35	0.2	0.061	µg/m3	2.8	0.87	0.26	1.5	0.87	0.26	
8260B	1,2,4-Trimethylbenzene	ppb	0.83	0.2	0.063	0.69	0.2	0.063	µg/m3	4.1	0.98	0.31	3.4	0.98	0.31	
8260B	1,3,5-Trimethylbenzene	ppb	0.28	0.2	0.065	0.16	0.2	0.065	µg/m3	1.4	0.98	0.3	.80J	0.98	0.3	
8260B	1,2,4-Trimethylpentane	ppb	0.13	0.5	0.039	0.096	0.5	0.039	µg/m3	.59 J	2.3	0.18	.45 J	2.3	0.18	
8260B	u-Undecane	ppb	0.7	1.0	0.062	1.0	1.0	0.062	µg/m3	4.5 J	6.4	0.4	6.6	6.4	0.4	

Client Sample ID			SS-161803-071713-KB-41			SS-161803-071713-KB-41D				SS-161803-071713-KB-41			SS-161803-071713-KB-41D			
Source			Sub-Slab			Sub-Slab (Field Duplicate)				Sub-Slab			Sub-Slab (Field Duplicate)			
Collect Date			7/17/2013			7/17/2013				7/17/2013			7/17/2013			
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	Units	Value	RL	MDL	Value	RL	MDL	
8260B	TIC-Ethanol	ppb	46													
8260B	TIC-Propane	ppb	ND													
8260B	TIC-Tridecane	ppb	9.5													
8260B	TIC-Unknown	ppb	3.1													
8260B	TIC-Unknown	ppb	3.9													
8260B	TIC-Unknown	ppb	46													
8260B	TIC-Unknown	ppb	2.5													
1,4-Bromofluorobenzene			% Rec.	115			119			115			119			

Notes

Bolded values indicate target analyte at a detectable level.

Qualifiers:

E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater

B - Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL

TABLE 5.3
METHANE SAMPLING RESULTS FROM SUB-SLAB, IMMEDIATELY AFTER INSTALLATION OF SSDS
Valley Asphalt

Sample Event: Immediately after Installation of SSDS
 Matrix: AIR
 Client Sample IDs: SS-161803-071713-KB-41; IA-161803-08052013-KB-41
 Method: 1946 and 8015M

Results

Client Sample ID		SS-161803-071713-KB-41			IA-161803-08052013-KB-41				
Lab Sample ID		HG3230415			L651240-05				
Source		Sub-Slab			Indoor Air				
Collect Date		7/17/2013			8/5/2013				
Client Project ID		161803			161803				
Collect Time		17:19:00			16:42:00				
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	ODH Methane SL
ASTM D 1946/E 260	Methane	%	ND	0.2					0.50%
ASTM D 1946/E 260	Ethane	%	ND	0.2					0.50%
ASTM D 1946/E 260	Ethene	%	ND	0.2					0.50%
8015M	Methane	µg/l				<10	10	1.9	
8015M	Ethane	µg/l				<10	10	2.9	
8015M	Ethene	µg/l				<10	10	2.5	

TABLE 5.4
30-DAY PROFICIENCY SAMPLING RESULTS, SUB-SLAB
Valley Asphalt

Sample Event: 30-Day Proficiency Testing
Matrix: AIR
Client Sample IDs: 41D:SS-161803-08052013-KB-41
Method: 8260B

Results

Client Sample ID	SS-161803-08052013-KB-41
Lab Sample ID	L651240-03
Source	Sub-Slab
Collect Date	8/6/2013
Client Project ID	161803
Collect Time	10:58:00

Method	Parameter	Units	Value	RL	MDL	Units	Value	RL	MDL	USEPA Industrial IASL ¹	ODH Screening ($\mu\text{g}/\text{m}^3$)
8260B	Acetone	ppb	11	1.25	0.0738	$\mu\text{g}/\text{m}^3$	26	2.97	0.175	1,400,000	-
8260B	Allyl chloride	ppb	<0.200	0.2	0.0762	$\mu\text{g}/\text{m}^3$	<0.626	0.626	0.239	4.4	-
8260B	Benzene	ppb	<0.200	0.2	0.057	$\mu\text{g}/\text{m}^3$	<0.639	0.639	0.182	160	40
8260B	Benzyl Chloride	ppb	<0.200	0.2	0.0754	$\mu\text{g}/\text{m}^3$	<1.04	1.04	0.392	25	-
8260B	Bromodichloromethane	ppb	<0.200	0.2	0.0621	$\mu\text{g}/\text{m}^3$	<1.34	1.34	0.417	33	-
8260B	Bromoform	ppb	<0.600	0.6	0.0685	$\mu\text{g}/\text{m}^3$	<6.21	6.21	0.709	1,100	-
8260B	Bromomethane	ppb	<0.200	0.2	0.0379	$\mu\text{g}/\text{m}^3$	<0.776	0.776	0.147	220	-
8260B	Carbon disulfide	ppb	<0.200	0.2	0.0348	$\mu\text{g}/\text{m}^3$	<0.622	0.622	0.108	31,000	-
8260B	Carbon tetrachloride	ppb	<0.200	0.2	0.0433	$\mu\text{g}/\text{m}^3$	<1.26	1.26	0.273	200	-
8260B	Chlorobenzene	ppb	<0.200	0.2	0.0752	$\mu\text{g}/\text{m}^3$	<0.924	0.924	0.348	2,200	-
8260B	Chloroethane	ppb	<0.200	0.2	0.0502	$\mu\text{g}/\text{m}^3$	<0.528	0.528	0.132	440,000	-
8260B	Chloroform	ppb	<0.200	0.2	0.0507	$\mu\text{g}/\text{m}^3$	<0.973	0.973	0.247	53	4000
8260B	Chloromethane	ppb	0.23	0.2	0.0274	$\mu\text{g}/\text{m}^3$	0.48	0.413	0.0566	3,900	-
8260B	Dibromochloromethane	ppb	<0.200	0.2	0.0654	$\mu\text{g}/\text{m}^3$	<1.70	1.7	0.556	45	-
8260B	1,2-Dibromoethane	ppb	<0.200	0.2	0.0798	$\mu\text{g}/\text{m}^3$	<1.54	1.54	0.614	2.0	-
8260B	1,2-Dichlorobenzene	ppb	<0.200	0.2	0.0776	$\mu\text{g}/\text{m}^3$	<1.20	1.2	0.467	8,800	-
8260B	1,3-Dichlorobenzene	ppb	<0.200	0.2	0.0797	$\mu\text{g}/\text{m}^3$	<1.20	1.2	0.479	110	-
8260B	1,4-Dichlorobenzene	ppb	<0.200	0.2	0.076	$\mu\text{g}/\text{m}^3$	<1.20	1.2	0.457	110	-
8260B	1,2-Dichloroethane	ppb	<0.200	0.2	0.0624	$\mu\text{g}/\text{m}^3$	<0.810	0.81	0.253	47	-
8260B	1,1-Dichloroethane	ppb	<0.200	0.2	0.0506	$\mu\text{g}/\text{m}^3$	<0.802	0.802	0.203	770	630
8260B	1,1-Dichloroethene	ppb	<0.200	0.2	0.0385	$\mu\text{g}/\text{m}^3$	<0.793	0.793	0.153	8,800	-
8260B	cis-1,2-Dichloroethene	ppb	<0.200	0.2	0.0477	$\mu\text{g}/\text{m}^3$	<0.793	0.793	0.189	2,600	1500
8260B	trans-1,2-Dichloroethene	ppb	<0.200	0.2	0.0438	$\mu\text{g}/\text{m}^3$	<0.793	0.793	0.174	2,600	-
8260B	1,2-Dichloropropane	ppb	<0.200	0.2	0.0679	$\mu\text{g}/\text{m}^3$	<0.924	0.924	0.314	120	-
8260B	cis-1,3-Dichloropropene	ppb	<0.200	0.2	0.08	$\mu\text{g}/\text{m}^3$	<0.908	0.908	0.363	310	-
8260B	trans-1,3-Dichloropropene	ppb	<0.200	0.2	0.101	$\mu\text{g}/\text{m}^3$	<0.908	0.908	0.459	310	-
8260B	1,4-Dioxane	ppb	0.22	0.2	0.0671	$\mu\text{g}/\text{m}^3$	0.79	0.721	0.242	160	-
8260B	Ethanol	ppb	130 E	0.63	0.164	$\mu\text{g}/\text{m}^3$	250 E	1.19	0.309	-	-
8260B	Ethylbenzene	ppb	0.2	0.2	0.0789	$\mu\text{g}/\text{m}^3$	0.87	0.867	0.342	490	13000
8260B	Trichlorofluoromethane	ppb	0.28	0.2	0.0357	$\mu\text{g}/\text{m}^3$	1.6	1.12	0.201	31,000	-
8260B	Dichlorodifluoromethane	ppb	0.47	0.2	0.0336	$\mu\text{g}/\text{m}^3$	2.3	0.989	0.166	44	-

Client			SS-161803-08052013-KB-41						SS-161803-08052013-KB-41												
Source			Sub-Slab							Sub-Slab											
Collect Date			8/6/2013							8/6/2013											
Method	Parameter	Units	Value	RL	MDL	Units	Value	RL	MDL	USEPA Industrial IASL ¹	ODH Screening (µg/m3)										
8260B	Hexachloro-1,3-butadiene	ppb	<0.630	0.63	0.0764	µg/m3	<6.73	6.73	0.816	56	-										
8260B	n-Hexane	ppb	0.81	0.2	0.0433	µg/m3	2.9	0.705	0.153	31000	-										
8260B	Isopropylbenzene	ppb	<0.200	0.2	0.0751	µg/m3	<0.983	0.983	0.369	18,000	-										
8260B	Methylene Chloride	ppb	1.2	0.2	0.0437	µg/m3	4.2	0.694	0.152	2,600	-										
8260B	Methyl Butyl Ketone	ppb	<1.25	1.25	0.0873	µg/m3	<5.11	5.11	0.357	-	-										
8260B	2-Butanone (MEK)	ppb	1.8	1.25	0.0744	µg/m3	5.3	3.69	0.219	220,000	-										
8260B	(MIBK)	ppb	<1.25	1.25	0.0857	µg/m3	<5.12	5.12	0.351	130,000	-										
8260B	Methyl methacrylate	ppb	<0.200	0.2	0.0812	µg/m3	<0.819	0.819	0.333	31,000	-										
8260B	MTBE	ppb	<0.200	0.2	0.0651	µg/m3	<0.721	0.721	0.235	4,700	-										
8260B	Styrene	ppb	<0.200	0.2	0.0757	µg/m3	<0.851	0.851	0.322	44,000	-										
8260B	1,1,2,2-Tetrachloroethane	ppb	<0.200	0.2	0.0792	µg/m3	<1.37	1.37	0.544	21	-										
8260B	Tetrachloroethylene	ppb	<0.200	0.2	0.0508	µg/m3	<1.36	1.36	0.345	210	1700										
8260B	Toluene	ppb	2.8	0.2	0.071	µg/m3	11	0.75	0.27	220,000	-										
8260B	1,2,4-Trichlorobenzene	ppb	<0.630	0.63	0.0518	µg/m3	<4.66	4.66	0.383	88	-										
8260B	1,1,1-Trichloroethane	ppb	<0.200	0.2	0.0507	µg/m3	<1.09	1.09	0.276	220,000	-										
8260B	1,1,2-Trichloroethane	ppb	<0.200	0.2	0.0735	µg/m3	<1.09	1.09	0.4	8.8	-										
8260B	Trichloroethylene	ppb	<0.200	0.2	0.0591	µg/m3	<1.07	1.07	0.317	88	100										
8260B	Vinyl acetate	ppb	<0.200	0.2	0.0823	µg/m3	<0.704	0.704	0.29	8800	-										
8260B	Vinyl chloride	ppb	<0.200	0.2	0.0309	µg/m3	<0.511	0.511	0.079	280	40										
8260B	m&p-Xylene	ppb	0.64	0.4	0.152	µg/m3	2.8	1.73	0.659	4400	8000										
8260B	o-Xylene	ppb	0.24	0.2	0.0738	µg/m3	1	0.867	0.32	4400	8000										
8260B	1,2,4-Trimethylbenzene	ppb	0.26	0.2	0.0829	µg/m3	1.3	0.982	0.407	310	-										
8260B	1,3,5-Trimethylbenzene	ppb	<0.200	0.2	0.0721	µg/m3	<0.982	0.982	0.354	-	-										
8260B	1,4-Bromofluorobenzene	% Rec.																			

Notes

¹ - USEPA Industrial SVSL for Monitoring (IASL corresponding to the smaller of the two numbers: target of ELCR of 10^{-5} or HI of 1; all units are µg/m3.

Qualifiers:

- E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than
- B - Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated result. Result is less than RL

TABLE 5.5
30-DAY PROFICIENCY SAMPLING RESULTS - INDOOR AIR
Valley Asphalt

Sample Event: **30-Day Proficiency Testing**
Matrix: **AIR**
Client Sample IDs: **IA-161803-08052013-KB-41 ; IA-161803-08052013-KB-41D**
Method: **8260B**

Results

Client Sample ID	IA-161803-08052013-KB-41			IA-161803-08052013-KB-41D			Client Sample ID	IA-161803-08052013-KB-41			IA-161803-08052013-KB-41D								
Lab Sample ID	L651240-04			L651240-06			Lab Sample ID	04			06								
Source	Indoor Air			Field			Source	Indoor Air			Field								
Collect Date	8/5/2013			8/6/2013			Collect Date	8/5/2013			8/6/2013								
Client Project ID	161803			161803			Client Project ID	161803			161803								
Collect Time	16:42:00			10:55:00			Collect Time	16:42:00			10:55:00								
Method	Parameter	Units	Value	RL	MDL	Method	Parameter	Units	Value	RL	MDL	Method	Parameter	Units	Value	RL	MDL	USEPA Industrial IASL ¹	ODH Screening
8260B	Acetone	ppb	11	1.25	0.0738	8260B	Acetone	µg/m³	11	1.25	0.0738	8260B	Acetone	µg/m³	8.8	1.25	0.0738	140,000	-
8260B	Allyl chloride	ppb	<0.200	0.2	0.0762	8260B	Allyl chloride	µg/m³	<0.200	0.2	0.0762	8260B	Allyl chloride	µg/m³	<0.200	0.2	0.0762	4.4	-
8260B	Benzene	ppb	<0.200	0.2	0.057	8260B	Benzene	µg/m³	<0.200	0.2	0.057	8260B	Benzene	µg/m³	<0.200	0.2	0.057	16	2
8260B	Benzyl Chloride	ppb	<0.200	0.2	0.0754	8260B	Benzyl Chloride	µg/m³	<0.200	0.2	0.0754	8260B	Benzyl Chloride	µg/m³	<0.200	0.2	0.0754	2.5	-
8260B	Bromodichloromethane	ppb	<0.200	0.2	0.0621	8260B	Bromodichloromethane	µg/m³	<0.200	0.2	0.0621	8260B	Bromodichloromethane	µg/m³	<0.200	0.2	0.0621	3.3	-
8260B	Bromoform	ppb	<0.600	0.6	0.0685	8260B	Bromoform	µg/m³	<0.600	0.6	0.0685	8260B	Bromoform	µg/m³	<0.600	0.6	0.0685	110	-
8260B	Bromomethane	ppb	<0.200	0.2	0.0379	8260B	Bromomethane	µg/m³	<0.200	0.2	0.0379	8260B	Bromomethane	µg/m³	<0.200	0.2	0.0379	22	-
8260B	Carbon disulfide	ppb	<0.200	0.2	0.0348	8260B	Carbon disulfide	µg/m³	<0.200	0.2	0.0348	8260B	Carbon disulfide	µg/m³	<0.200	0.2	0.0348	3100	-
8260B	Carbon tetrachloride	ppb	<0.200	0.2	0.0433	8260B	Carbon tetrachloride	µg/m³	<0.200	0.2	0.0433	8260B	Carbon tetrachloride	µg/m³	<0.200	0.2	0.0433	20	-
8260B	Chlorobenzene	ppb	<0.200	0.2	0.0752	8260B	Chlorobenzene	µg/m³	<0.200	0.2	0.0752	8260B	Chlorobenzene	µg/m³	<0.200	0.2	0.0752	220	-
8260B	Chloroethane	ppb	<0.200	0.2	0.0502	8260B	Chloroethane	µg/m³	<0.200	0.2	0.0502	8260B	Chloroethane	µg/m³	<0.200	0.2	0.0502	44000	-
8260B	Chloroform	ppb	<0.200	0.2	0.0507	8260B	Chloroform	µg/m³	<0.200	0.2	0.0507	8260B	Chloroform	µg/m³	<0.200	0.2	0.0507	5.3	80
8260B	Chloromethane	ppb	0.53	0.2	0.0274	8260B	Chloromethane	µg/m³	0.53	0.2	0.0274	8260B	Chloromethane	µg/m³	0.46	0.2	0.0274	390	-
8260B	Dibromochloromethane	ppb	<0.200	0.2	0.0654	8260B	Dibromochloromethane	µg/m³	<0.200	0.2	0.0654	8260B	Dibromochloromethane	µg/m³	<0.200	0.2	0.0654	5	-
8260B	1,2-Dibromoethane	ppb	<0.200	0.2	0.0798	8260B	1,2-Dibromoethane	µg/m³	<0.200	0.2	0.0798	8260B	1,2-Dibromoethane	µg/m³	<0.200	0.2	0.0798	0.2	-
8260B	1,2-Dichlorobenzene	ppb	<0.200	0.2	0.0776	8260B	1,2-Dichlorobenzene	µg/m³	<0.200	0.2	0.0776	8260B	1,2-Dichlorobenzene	µg/m³	<0.200	0.2	0.0776	880	-
8260B	1,3-Dichlorobenzene	ppb	<0.200	0.2	0.0797	8260B	1,3-Dichlorobenzene	µg/m³	<0.200	0.2	0.0797	8260B	1,3-Dichlorobenzene	µg/m³	<0.200	0.2	0.0797	11	-
8260B	1,4-Dichlorobenzene	ppb	<0.200	0.2	0.076	8260B	1,4-Dichlorobenzene	µg/m³	<0.200	0.2	0.076	8260B	1,4-Dichlorobenzene	µg/m³	<0.200	0.2	0.076	11	-
8260B	1,2-Dichloroethane	ppb	<0.200	0.2	0.0624	8260B	1,2-Dichloroethane	µg/m³	<0.200	0.2	0.0624	8260B	1,2-Dichloroethane	µg/m³	<0.200	0.2	0.0624	31	-
8260B	1,1-Dichloroethane	ppb	<0.200	0.2	0.0506	8260B	1,1-Dichloroethane	µg/m³	<0.200	0.2	0.0506	8260B	1,1-Dichloroethane	µg/m³	<0.200	0.2	0.0506	77	16
8260B	1,1-Dichloroethene	ppb	<0.200	0.2	0.0385	8260B	1,1-Dichloroethene	µg/m³	<0.200	0.2	0.0385	8260B	1,1-Dichloroethene	µg/m³	<0.200	0.2	0.0385	880	-
8260B	cis-1,2-Dichloroethene	ppb	<0.200	0.2	0.0477	8260B	cis-1,2-Dichloroethene	µg/m³	<0.200	0.2	0.0477	8260B	cis-1,2-Dichloroethene	µg/m³	<0.200	0.2	0.0477	260	37
8260B	trans-1,2-Dichloroethene	ppb	<0.200	0.2	0.0438	8260B	trans-1,2-Dichloroethene	µg/m³	<0.200	0.2	0.0438	8260B	trans-1,2-Dichloroethene	µg/m³	<0.200	0.2	0.0438	260	-
8260B	1,2-Dichloropropane	ppb	<0.200	0.2	0.0679	8260B	1,2-Dichloropropane	µg/m³	<0.200	0.2	0.0679	8260B	1,2-Dichloropropane	µg/m³	<0.200	0.2	0.0679	12	-
8260B	cis-1,3-Dichloropropene	ppb	<0.200	0.2	0.08	8260B	cis-1,3-Dichloropropene	µg/m³	<0.200	0.2	0.08	8260B	cis-1,3-Dichloropropene	µg/m³	<0.200	0.2	0.08	31	-
8260B	trans-1,3-Dichloropropene	ppb	<0.200	0.2	0.101	8260B	trans-1,3-Dichloropropene	µg/m³	<0.200	0.2	0.101	8260B	trans-1,3-Dichloropropene	µg/m³	<0.200	0.2	0.101	31	-
8260B	1,4-Dioxane	ppb	<0.200	0.2	0.0671	8260B	1,4-Dioxane	µg/m³	<0.200	0.2	0.0671	8260B	1,4-Dioxane	µg/m³	<0.200	0.2	0.0671	16	-
8260B	Ethanol	ppb	61	0.63	0.164	8260B	Ethanol	µg/m³	61	0.63	0.164	8260B	Ethanol	µg/m³	57	0.63	0.164	-	-

Client Sample ID			IA-161803-08052013-KB-41			IA-161803-08052013-KB-41D			IA-161803-08052013-KB-41			IA-161803-08052013-KB-41D								
Source			Indoor Air			Field						Indoor Air			Field					
Collect Date			8/5/2013			8/6/2013						8/5/2013			8/6/2013					
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	Units	Value	RL	MDL	Value	RL	MDL	USEPA Industrial IASL ¹	ODH Screening			
8260B	Ethylbenzene	ppb	<0.200	0.2	0.0789	0.58	0.2	0.0789	µg/m³	<0.200	0.2	0.0789	0.58	0.2	0.0789	49	250			
8260B	Trichlorofluoromethane	ppb	0.22	0.2	0.0357	<0.200	0.2	0.0357	µg/m³	0.22	0.2	0.0357	<0.200	0.2	0.0357	3100	-			
8260B	Dichlorodifluoromethane	ppb	0.45	0.2	0.0336	0.32	0.2	0.0336	µg/m³	0.45	0.2	0.0336	0.32	0.2	0.0336	440	-			
8260B	Hexachloro-1,3-butadiene	ppb	<0.630	0.63	0.0764	<0.630	0.63	0.0764	µg/m³	<0.630	0.63	0.0764	<0.630	0.63	0.0764	5.6	-			
8260B	n-Hexane	ppb	0.38	0.2	0.0433	0.21	0.2	0.0433	µg/m³	0.38	0.2	0.0433	0.21	0.2	0.0433	3100	-			
8260B	Isopropylbenzene	ppb	<0.200	0.2	0.0751	<0.200	0.2	0.0751	µg/m³	<0.200	0.2	0.0751	<0.200	0.2	0.0751	1800	-			
8260B	Methylene Chloride	ppb	0.6	0.2	0.0437	<0.200	0.2	0.0437	µg/m³	0.6	0.2	0.0437	<0.200	0.2	0.0437	260	-			
8260B	Methyl Butyl Ketone	ppb	<1.25	1.25	0.0873	<1.25	1.25	0.0873	µg/m³	<1.25	1.25	0.0873	<1.25	1.25	0.0873	-	-			
8260B	2-Butanone (MEK)	ppb	<1.25	1.25	0.0744	<1.25	1.25	0.0744	µg/m³	<1.25	1.25	0.0744	<1.25	1.25	0.0744	22000	-			
8260B	4-Methyl-2-pentanone (MIBK)	ppb	<1.25	1.25	0.0857	<1.25	1.25	0.0857	µg/m³	<1.25	1.25	0.0857	<1.25	1.25	0.0857	13000	-			
8260B	Methyl methacrylate	ppb	<0.200	0.2	0.0812	<0.200	0.2	0.0812	µg/m³	<0.200	0.2	0.0812	<0.200	0.2	0.0812	3100	-			
8260B	MTBE	ppb	<0.200	0.2	0.0651	<0.200	0.2	0.0651	µg/m³	<0.200	0.2	0.0651	<0.200	0.2	0.0651	470	-			
8260B	Styrene	ppb	<0.200	0.2	0.0757	<0.200	0.2	0.0757	µg/m³	<0.200	0.2	0.0757	<0.200	0.2	0.0757	4400	-			
8260B	1,1,2,2-Tetrachloroethane	ppb	<0.200	0.2	0.0792	<0.200	0.2	0.0792	µg/m³	<0.200	0.2	0.0792	<0.200	0.2	0.0792	2.0	-			
8260B	Tetrachloroethylene	ppb	<0.200	0.2	0.0508	<0.200	0.2	0.0508	µg/m³	<0.200	0.2	0.0508	<0.200	0.2	0.0508	21	25			
8260B	Toluene	ppb	1.4	0.2	0.071	1.1	0.2	0.071	µg/m³	1.4	0.2	0.071	1.1	0.2	0.071	22000	-			
8260B	1,2,4-Trichlorobenzene	ppb	<0.630	0.63	0.0518	<0.630	0.63	0.0518	µg/m³	<0.630	0.63	0.0518	<0.630	0.63	0.0518	8.8	-			
8260B	1,1,1-Trichloroethane	ppb	<0.200	0.2	0.0507	<0.200	0.2	0.0507	µg/m³	<0.200	0.2	0.0507	<0.200	0.2	0.0507	22000	-			
8260B	1,1,2-Trichloroethane	ppb	<0.200	0.2	0.0735	<0.200	0.2	0.0735	µg/m³	<0.200	0.2	0.0735	<0.200	0.2	0.0735	7.7	-			
8260B	Trichloroethylene	ppb	<0.200	0.2	0.0591	<0.200	0.2	0.0591	µg/m³	<0.200	0.2	0.0591	<0.200	0.2	0.0591	8.8	2			
8260B	Vinyl acetate	ppb	<0.200	0.2	0.0823	<0.200	0.2	0.0823	µg/m³	<0.200	0.2	0.0823	<0.200	0.2	0.0823	880	-			
8260B	Vinyl chloride	ppb	<0.200	0.2	0.0309	<0.200	0.2	0.0309	µg/m³	<0.200	0.2	0.0309	<0.200	0.2	0.0309	28	2			
8260B	m&p-Xylene	ppb	0.53	0.4	0.152	5.3	0.4	0.152	µg/m³	0.53	0.4	0.152	5.3	0.4	0.152	440	200			
8260B	o-Xylene	ppb	0.2	0.2	0.0738	2.2	0.2	0.0738	µg/m³	0.2	0.2	0.0738	2.2	0.2	0.0738	440	16			
8260B	1,2,4-Trimethylbenzene	ppb	0.25	0.2	0.0829	0.3	0.2	0.0829	µg/m³	0.25	0.2	0.0829	0.3	0.2	0.0829	31	-			
8260B	1,3,5-Trimethylbenzene	ppb	<0.200	0.2	0.0721	<0.200	0.2	0.0721	µg/m³	<0.200	0.2	0.0721	<0.200	0.2	0.0721	-	-			
8260B	1,4-Bromofluorobenzene	% Rec.	100			100			% Rec.	100			100							

Notes

¹ - USEPA Industrial SVSL for Monitoring (IASL corresponding to the smaller of the two numbers: target of ELCR of 10^{-5} or HI of 1; all units are µg/m³.

Qualifiers:

E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

B - Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL

TABLE 5.6
30-DAY PROFICIENCY SAMPLING RESULTS - OUTDOOR AIR
Valley Asphalt

Sample Event: 30-Day Proficiency Sampling
Matrix: AIR
Client OA-161803-08052013-KB-41; OA-161803-08052013-KB-41D
Method: 8260B

Results

Client Sample ID	OA-161803-08052013-KB-41			OA-161803-08052013-KB-41D			OA-161803-08052013-KB-41	OA-161803-08052013-KB-41D							
Lab Sample ID	L651240-01			L651240-02			L651240-01	L651240-02							
Source	Outdoor Air			Outdoor Air - Field Duplicate			Outdoor Air	Outdoor Air - Field Duplicate							
Collect Date	8/5/2013			8/5/2013			8/5/2013	8/5/2013							
Client Project ID	161803			161803			161803	161803							
Collect Time	16:51:00			16:58:00			16:51:00	16:58:00							
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	Units	Value	RL	MDL	Value	RL	MDL
8260B	Acetone	ppb	3.4	1.25	0.0738	8.9	1.25	0.0738	µg/m³	8.1	2.97	0.175	21	2.97	0.175
8260B	Allyl chloride	ppb	<0.200	0.2	0.0762	<0.200	0.2	0.0762	µg/m³	<0.626	0.626	0.239	<0.626	0.626	0.239
8260B	Benzene	ppb	<0.200	0.2	0.057	<0.200	0.2	0.057	µg/m³	<0.639	0.639	0.182	<0.639	0.639	0.182
8260B	Benzyl Chloride	ppb	<0.200	0.2	0.0754	<0.200	0.2	0.0754	µg/m³	<1.04	1.04	0.392	<1.04	1.04	0.392
8260B	Bromodichloromethane	ppb	<0.200	0.2	0.0621	<0.200	0.2	0.0621	µg/m³	<1.34	1.34	0.417	<1.34	1.34	0.417
8260B	Bromoform	ppb	<0.600	0.6	0.0685	<0.600	0.6	0.0685	µg/m³	<6.21	6.21	0.709	<6.21	6.21	0.709
8260B	Bromomethane	ppb	<0.200	0.2	0.0379	<0.200	0.2	0.0379	µg/m³	<0.776	0.776	0.147	<0.776	0.776	0.147
8260B	Carbon disulfide	ppb	<0.200	0.2	0.0348	<0.200	0.2	0.0348	µg/m³	<0.622	0.622	0.108	<0.622	0.622	0.108
8260B	Carbon tetrachloride	ppb	<0.200	0.2	0.0433	<0.200	0.2	0.0433	µg/m³	<1.26	1.26	0.273	<1.26	1.26	0.273
8260B	Chlorobenzene	ppb	<0.200	0.2	0.0752	<0.200	0.2	0.0752	µg/m³	<0.924	0.924	0.348	<0.924	0.924	0.348
8260B	Chloroethane	ppb	<0.200	0.2	0.0502	<0.200	0.2	0.0502	µg/m³	<0.528	0.528	0.132	<0.528	0.528	0.132
8260B	Chloroform	ppb	<0.200	0.2	0.0507	<0.200	0.2	0.0507	µg/m³	<0.973	0.973	0.247	<0.973	0.973	0.247
8260B	Chloromethane	ppb	0.42	0.2	0.0274	0.56	0.2	0.0274	µg/m³	0.87	0.413	0.0566	1.2	0.413	0.0566
8260B	Dibromochloromethane	ppb	<0.200	0.2	0.0654	<0.200	0.2	0.0654	µg/m³	<1.70	1.7	0.556	<1.70	1.7	0.556
8260B	1,2-Dibromoethane	ppb	<0.200	0.2	0.0798	<0.200	0.2	0.0798	µg/m³	<1.54	1.54	0.614	<1.54	1.54	0.614
8260B	1,2-Dichlorobenzene	ppb	<0.200	0.2	0.0776	<0.200	0.2	0.0776	µg/m³	<1.20	1.2	0.467	<1.20	1.2	0.467
8260B	1,3-Dichlorobenzene	ppb	<0.200	0.2	0.0797	<0.200	0.2	0.0797	µg/m³	<1.20	1.2	0.479	<1.20	1.2	0.479
8260B	1,4-Dichlorobenzene	ppb	<0.200	0.2	0.076	<0.200	0.2	0.076	µg/m³	<1.20	1.2	0.457	<1.20	1.2	0.457
8260B	1,2-Dichloroethane	ppb	<0.200	0.2	0.0624	<0.200	0.2	0.0624	µg/m³	<0.810	0.81	0.253	<0.810	0.81	0.253
8260B	1,1-Dichloroethane	ppb	<0.200	0.2	0.0506	<0.200	0.2	0.0506	µg/m³	<0.802	0.802	0.203	<0.802	0.802	0.203
8260B	1,1-Dichloroethene	ppb	<0.200	0.2	0.0385	<0.200	0.2	0.0385	µg/m³	<0.793	0.793	0.153	<0.793	0.793	0.153
8260B	cis-1,2-Dichloroethene	ppb	<0.200	0.2	0.0477	<0.200	0.2	0.0477	µg/m³	<0.793	0.793	0.189	<0.793	0.793	0.189
8260B	trans-1,2-Dichloroethene	ppb	<0.200	0.2	0.0438	<0.200	0.2	0.0438	µg/m³	<0.793	0.793	0.174	<0.793	0.793	0.174

Client Sample ID			OA-161803-08052013-KB-41			OA-161803-08052013-KB-41D			OA-161803-08052013-KB-41			OA-161803-08052013-KB-41D			
Source			Outdoor Air			Outdoor Air - Field Duplicate			Outdoor Air			Outdoor Air - Field Duplicate			
Collect Date			8/5/2013			8/5/2013			8/5/2013			8/5/2013			
Method	Parameter	Units	Value	RL	MDL	Value	RL	MDL	Units	Value	RL	MDL	Value	RL	MDL
8260B	1,2-Dichloropropane	ppb	<0.200	0.2	0.0679	<0.200	0.2	0.0679	µg/m³	<0.924	0.924	0.314	<0.924	0.924	0.314
8260B	cis-1,3-Dichloropropene	ppb	<0.200	0.2	0.08	<0.200	0.2	0.08	µg/m³	<0.908	0.908	0.363	<0.908	0.908	0.363
8260B	trans-1,3-Dichloropropene	ppb	<0.200	0.2	0.101	<0.200	0.2	0.101	µg/m³	<0.908	0.908	0.459	<0.908	0.908	0.459
8260B	1,4-Dioxane	ppb	<0.200	0.2	0.0671	<0.200	0.2	0.0671	µg/m³	<0.721	0.721	0.242	<0.721	0.721	0.242
8260B	Ethanol	ppb	3.2	0.63	0.164	7.9	0.63	0.164	µg/m³	6	1.19	0.309	15	1.19	0.309
8260B	Ethylbenzene	ppb	<0.200	0.2	0.0789	<0.200	0.2	0.0789	µg/m³	<0.867	0.867	0.342	<0.867	0.867	0.342
8260B	Trichlorofluoromethane	ppb	<0.200	0.2	0.0357	0.25	0.2	0.0357	µg/m³	<1.12	1.12	0.201	1.4	1.12	0.201
8260B	Dichlorodifluoromethane	ppb	0.36	0.2	0.0336	0.41	0.2	0.0336	µg/m³	1.8	0.989	0.166	2	0.989	0.166
8260B	Hexachloro-1,3-butadiene	ppb	<0.630	0.63	0.0764	<0.630	0.63	0.0764	µg/m³	<6.73	6.73	0.816	<6.73	6.73	0.816
8260B	n-Hexane	ppb	<0.200	0.2	0.0433	0.4	0.2	0.0433	µg/m³	<0.705	0.705	0.153	1.4	0.705	0.153
8260B	Isopropylbenzene	ppb	<0.200	0.2	0.0751	<0.200	0.2	0.0751	µg/m³	<0.983	0.983	0.369	<0.983	0.983	0.369
8260B	Methylene Chloride	ppb	<0.200	0.2	0.0437	0.92	0.2	0.0437	µg/m³	<0.694	0.694	0.152	3.2	0.694	0.152
8260B	Methyl Butyl Ketone	ppb	<1.25	1.25	0.0873	<1.25	1.25	0.0873	µg/m³	<5.11	5.11	0.357	<5.11	5.11	0.357
8260B	2-Butanone (MEK)	ppb	<1.25	1.25	0.0744	<1.25	1.25	0.0744	µg/m³	<3.69	3.69	0.219	<3.69	3.69	0.219
8260B	(MIBK)	ppb	<1.25	1.25	0.0857	<1.25	1.25	0.0857	µg/m³	<5.12	5.12	0.351	<5.12	5.12	0.351
8260B	Methyl methacrylate	ppb	<0.200	0.2	0.0812	<0.200	0.2	0.0812	µg/m³	<0.819	0.819	0.333	<0.819	0.819	0.333
8260B	MTBE	ppb	<0.200	0.2	0.0651	<0.200	0.2	0.0651	µg/m³	<0.721	0.721	0.235	<0.721	0.721	0.235
8260B	Styrene	ppb	<0.200	0.2	0.0757	<0.200	0.2	0.0757	µg/m³	<0.851	0.851	0.322	<0.851	0.851	0.322
8260B	1,1,2,2-Tetrachloroethane	ppb	<0.200	0.2	0.0792	<0.200	0.2	0.0792	µg/m³	<1.37	1.37	0.544	<1.37	1.37	0.544
8260B	Tetrachloroethylene	ppb	<0.200	0.2	0.0508	<0.200	0.2	0.0508	µg/m³	<1.36	1.36	0.345	<1.36	1.36	0.345
8260B	Toluene	ppb	0.22	0.2	0.071	0.94	0.2	0.071	µg/m³	0.83	0.75	0.27	3.5	0.75	0.27
8260B	1,2,4-Trichlorobenzene	ppb	<0.630	0.63	0.0518	<0.630	0.63	0.0518	µg/m³	<4.66	4.66	0.383	<4.66	4.66	0.383
8260B	1,1,1-Trichloroethane	ppb	<0.200	0.2	0.0507	<0.200	0.2	0.0507	µg/m³	<1.09	1.09	0.276	<1.09	1.09	0.276
8260B	1,1,2-Trichloroethane	ppb	<0.200	0.2	0.0735	<0.200	0.2	0.0735	µg/m³	<1.09	1.09	0.4	<1.09	1.09	0.4
8260B	Trichloroethylene	ppb	<0.200	0.2	0.0591	<0.200	0.2	0.0591	µg/m³	<1.07	1.07	0.317	<1.07	1.07	0.317
8260B	Vinyl acetate	ppb	<0.200	0.2	0.0823	<0.200	0.2	0.0823	µg/m³	<0.704	0.704	0.29	<0.704	0.704	0.29
8260B	Vinyl chloride	ppb	<0.200	0.2	0.0309	<0.200	0.2	0.0309	µg/m³	<0.511	0.511	0.079	<0.511	0.511	0.079
8260B	m&p-Xylene	ppb	<0.400	0.4	0.152	<0.400	0.4	0.152	µg/m³	<1.73	1.73	0.659	<1.73	1.73	0.659
8260B	o-Xylene	ppb	<0.200	0.2	0.0738	<0.200	0.2	0.0738	µg/m³	<0.867	0.867	0.32	<0.867	0.867	0.32
8260B	1,2,4-Trimethylbenzene	ppb	<0.200	0.2	0.0829	<0.200	0.2	0.0829	µg/m³	<0.982	0.982	0.407	<0.982	0.982	0.407
8260B	1,3,5-Trimethylbenzene	ppb	<0.200	0.2	0.0721	<0.200	0.2	0.0721	µg/m³	<0.982	0.982	0.354	<0.982	0.982	0.354
8260B	1,4-Bromofluorobenzene	% Rec.	100			100				100			100		

Notes

Qualifiers:

- E GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
 B - Method blank contamination. The associated method blank contains the target analyte at a reportable level.
 J Estimated result. Result is less than RL